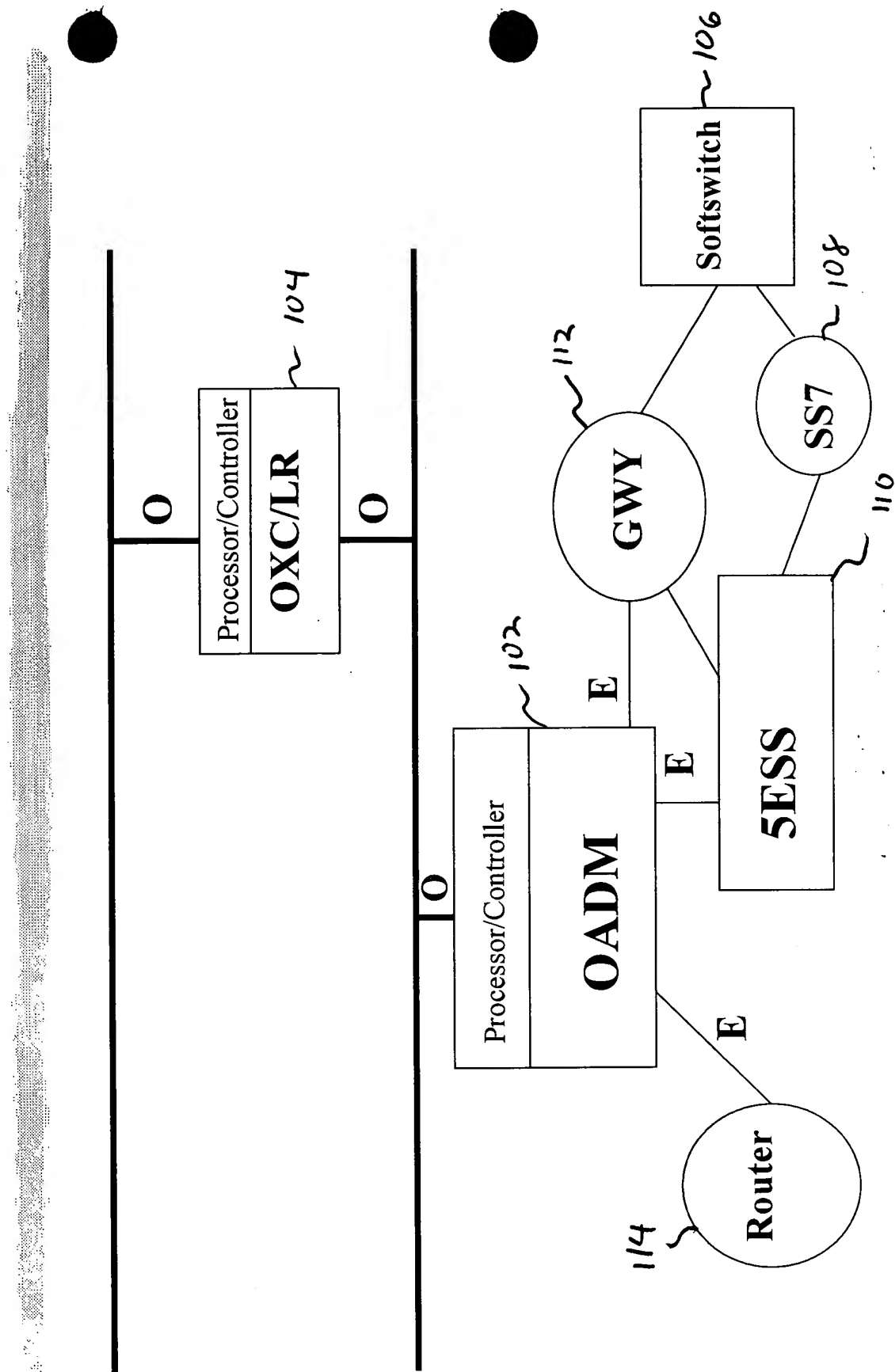


Fig 1

100



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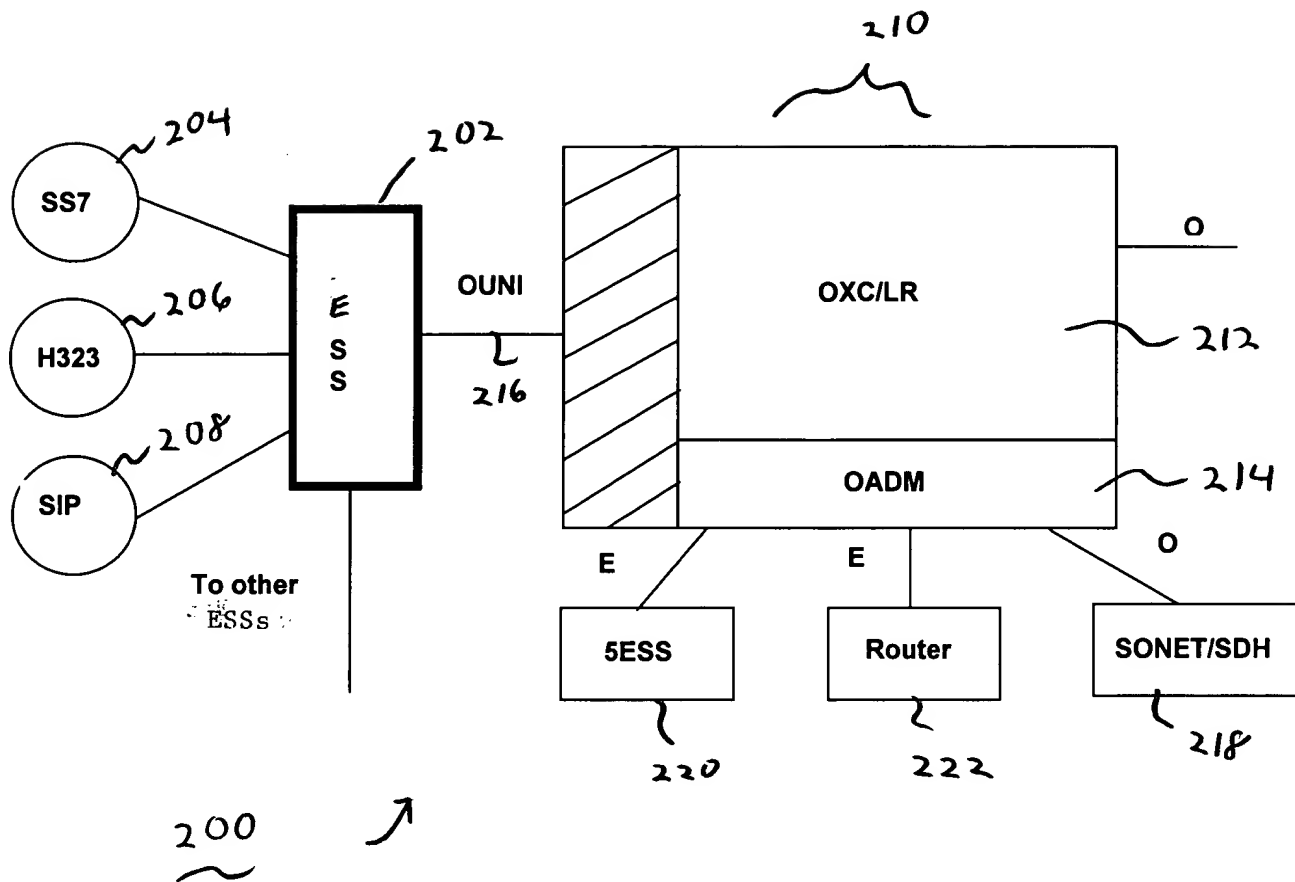


Fig. 2

FIG. 3: NESS Functional Modules

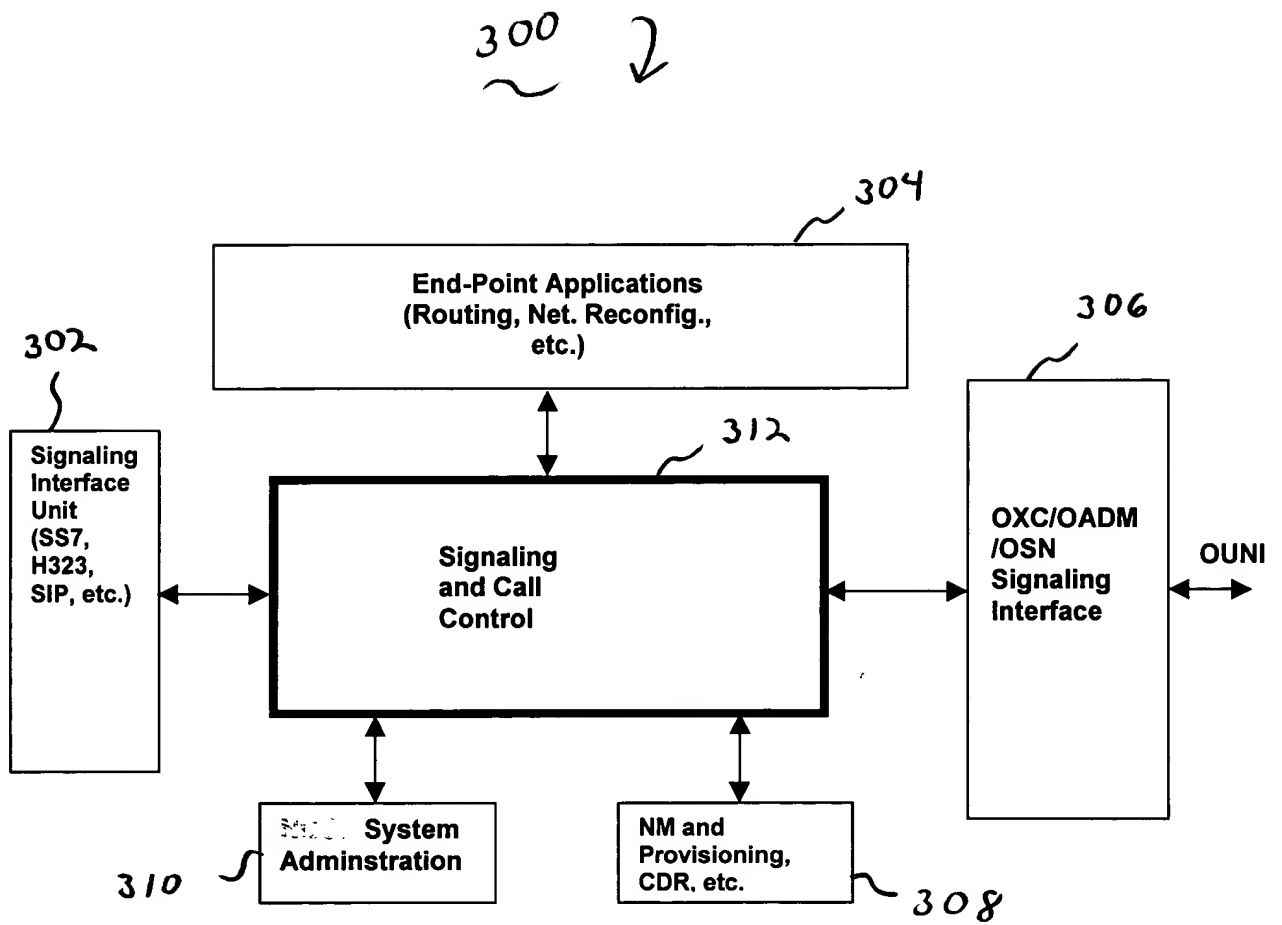


Figure (3): NESS Functional Modules

```

sequenceDiagram
    participant Ingress_SS7 as Ingress SS7
    participant Ingress_NGSS as Ingress NGSS
    participant Ingress_OXC_ONN as Ingress OXC/ONN
    participant Ingress_OSM as Ingress OSM
    participant Egress_OSM as Egress OSM
    participant Egress_OXC_ONN as Egress OXC/ONN
    participant Egress_NGSS as Egress NGSS
    participant Egress_SS7 as Egress SS7

    Ingress_SS7->>Ingress_NGSS: IAM
    Ingress_NGSS->>Ingress_OXC_ONN: 1
    Ingress_OXC_ONN->>Ingress_OSM: 2
    Ingress_OSM->>Egress_OSM: 3
    Egress_OSM->>Egress_OXC_ONN: 4
    Egress_OXC_ONN->>Egress_NGSS: 5
    Egress_NGSS->>Egress_SS7: 9
    Egress_SS7->>Egress_NGSS: 10
    Egress_NGSS->>Egress_OXC_ONN: 6
    Egress_OXC_ONN->>Ingress_OXC_ONN: 7
    Ingress_OXC_ONN->>Ingress_NGSS: 8
    Ingress_NGSS->>Ingress_SS7: ACM
    Ingress_SS7->>Ingress_NGSS: ANM
    Ingress_NGSS->>Ingress_OXC_ONN: IAM
    Ingress_OXC_ONN->>Ingress_OSM: ACM
    Ingress_OSM->>Egress_OSM: ANM
    Egress_OSM->>Egress_OXC_ONN: IAM
    Egress_OXC_ONN->>Egress_NGSS: ACM
    Egress_NGSS->>Egress_SS7: ANM
  
```

Figure (4): SS7 Example Call Flow with NESS